

**What is claimed is:**

1. A correcting system, when a predetermined correction portion of an original data is corrected by an variant correction data, for correcting a linear block code generated by coding an original data via a data coding process, said correcting  
5 system comprising:  
  
a coding module for  
  
coding said variant correction data via said data coding process to generate a corresponding variant correction code; and  
  
a correcting module for  
  
10 storing said variant correction code; and  
  
calculating said variant correction code and said linear block code to generate a substitute code to substitute said linear block code.
2. A correcting system of claim 1, wherein said coding module is a program module.
- 15 3. A correcting system of claim 1, wherein the original data comprises an identification data, an identification error detection code, and a main data, said identification data used to label the source position of the main data, the identification error detection code used to identify and detect the identification data.
- 20 4. A correcting system of claim 3, wherein said identification error detection code is generated by coding said identification data via an identification coding process
5. A correcting system of claim 4, when said variant correction data comprises an variant identification correction data for correcting said identification data,  
25 wherein said coding module codes said variant identification correction data to

generate a corresponding variant identification detection code via said identification coding process in advance

- 5 6. A correcting system of claim 5, wherein said correcting module uses a substitute identification error detection code generated by calculating said variant identification detection code and said identification detection code with XOR logic calculation to substitute said identification detection code.
7. A correcting system of claim 6, wherein said coding module codes said variant correction data and said variant identification detection code via said data coding process to generate said variant correction code in advance
- 10 8. A correcting system of claim 1, wherein said linear block code is an error detection code.
- 15 9. A correcting system of error detection code, when an identification data of an original data is corrected by an variant correction data, for correcting an identification error detection code generated by coding said identification data via an identification coding process, and correcting an error detection code generated by coding said original data via a data coding process, said correcting system comprising:
- 20 a coding module for
- coding said variant correction data via said identification coding process to generate an variant identification error detection code; and
- coding said variant correction data and said variant identification error detection code via said data coding process to generate a corresponding variant code; and
- a correcting module for
- 25 storing said variant identification error detection code and said variant

code;

calculating said variant identification error detection code and said identification error detection code to generate a substitute identification error detection code for substituting said identification error detection code; and

calculating said variant code and said error detection code to generate a substitute code for substituting said error detection code.

10. A correcting system of claim 9, wherein said coding module is a program module.
11. A correcting system, comprising a coding module and a correcting module, said coding module coding an variant correction data via a data coding process to generate an variant code, said correcting module storing said variant code and calculating said variant code and a linear block code with XOR logic calculation to generate a substitute code for substituting said linear block code.
12. A correcting system of claim 11, wherein said linear block code is generated by coding an original data via said data coding process.
13. A correcting system of claim 11, wherein said coding module is a program module.
14. A correcting system of claim 11, wherein said linear block code is an error detection code.
15. A correcting system of claim 11, wherein said original data comprises an identification data, an identification error detection code and a main data, said identification data being used to label the source position of the main data, the identification error detection code being used to identify and detect the identification data.

16. A correcting system of claim 15, wherein said identification error detection code is generated by coding identification data via an identification coding process.
17. A correcting system of claim 16, when said variant correction data comprises an variant identification correction data for correcting said identification data,  
5 wherein said coding module codes said variant identification correction data via said identification coding process to generate a corresponding variant identification error detection code.
18. A correcting system of claim 17, wherein said correcting module uses a substitute identification error detection code generated by calculating said  
10 variant identification detection code and said identification detection code with XOR logic calculation to substitute said identification detection code.
19. A correcting system of claim 18, wherein said coding module codes said variant correction data and said variant identification error detection code via said data coding process to generate said variant code in advance.

15